

DPM-918-1

***** SECTION I *****

FORMULA DATE:

DATE: 12/10/86

MANUFACTURER:

E.I. DUPONT DE NEMOURS & CO (INC)
FINISHES & FABRICATED PRODUCTS DEPT.
WILMINGTON, DELAWARE 19898

TELEPHONE:

PRODUCT INFORMATION (800) 441-7515
MEDICAL EMERGENCY (800) 441-3637
TRANSPORTATION EMERGENCY (800) 424-9300 (CHEMTREC)

IDENTITY:

PRODUCT CODE: 101S

DOT NAME: COMBUSTIBLE LIQUID

HEALTH: 3 FLAMMABILITY: 2 REACTIVITY: 0

***** SECTION II - INGREDIENTS *****

INGRED#	CAS NO.	INGREDIENT
001	14808-60-7	QUARTZ-CRYSTALLINE SILICA
002	61790-12-3	TALL OIL FATTY ACIDS
003	NONE	KEROSENE
004	8002-09-3	PINE OIL
005	7732 -18-5	WATER

INGRED#	VAPOR PRESSURE MM HG	EXPOSURE LIMITS	
		ACGIH OSHA	RESPIRABLE RESPIRABLE
001	NOT APP	.1 MG/M3 .1 MG/M3	RESPIRABLE RESPIRABLE
002	UNKNOWN	ACGIH 10.0 MG/M3 OSHA NONE	
003	1.00 0 DEG (C)	ACGIH 100.0 PPM OSHA 100.0 PPM	
004	1.00 0 DEG (C)	ACGIH NONE OSHA NONE	
005	UNKNOWN	ACGIH NONE OSHA NONE	

***** SECTION III - PHYSICAL DATA *****

***** SECTION III CONTINUED *****

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EVAPORATION RATE SLOWER THAN ETHER	VAPOR DENSITY HEAVIER THAN AIR	SOLUBILITY OF SOLVENT SYSTEM IN WATER APPRECIABLE
PERCENT VOLATILE BY VOLUME 71.8	APPROX. BOILING RANGE 100-225 DEG (C)	WEIGHT PER GALLON 10.72
PERCENT VOLATILE BY WEIGHT 49.7	PERCENT SOLIDS 50.2	V.O.C. THEORETICAL 5.08

***** SECTION IV - FIRE & EXPLOSION DATA *****

FLASH POINT (METHOD) BETWEEN 100 - 140 F (CC)	APPROX. FLAMMABLE LIMITS LEL .0 % UEL 7.0 %
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EXTINGUISHING MEDIA: FOAM, CARBON DIOXIDE, DRY CHEMICAL
SPECIAL FIRE FIGHTING PROCEDURES: FULL PROTECTIVE EQUIP-
MENT, INCLUDING SELF-CONTAINED BREATHING APPARATUS, IS
RECOMMENDED. WATER FROM FOG NOZZLES MAY BE USED TO PREVENT
PRESSURE BUILD-UP.

UNUSUAL FIRE & EXPLOSION HAZARDS: WHEN HEATED ABOVE THE
FLASHPOINT, EMITS FLAMMABLE VAPORS WHICH, WHEN MIXED WITH
AIR, CAN BURN OR BE EXPLOSIVE. FINE MISTS OR SPRAYS MAY BE
FLAMMABLE AT TEMPERATURES BELOW THE FLASH POINT.

***** SECTION V - HEALTH HAZARD DATA *****

ROUTE OF ENTRY	SYMPTOMS/EFFECTS AND FIRST AID
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INHALATION: MAY CAUSE NOSE AND THROAT IRRITATION. MAY CAUSE
NERVOUS SYSTEM DEPRESSION CHARACTERIZED BY THE FOLLOWING
PROGRESSIVE STEPS: HEADACHE, DIZZINESS, NAUSEA, STAGGERING
GAIT, CONFUSION, UNCONSCIOUSNESS.

REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OVEREXPOSURE
TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.

SKIN OR EYE CONTACT: MAY CAUSE IRRITATION OR BURNING OF THE
EYES. REPEATED OR PROLONGED LIQUID CONTACT MAY CAUSE SKIN
IRRITATION WITH DISCOMFORT AND DERMATITIS.

OTHER POTENTIAL HAZARDS INCLUDE:

QUARTZ-CRYSTALLINE SILICA
REPEATED OVEREXPOSURE TO CRYSTALLINE SILICA MAY LEAD TO
TYPICAL X-RAY CHANGES AND CHRONIC LUNG DISEASE.

PINE OIL
CAUSES EYE CORROSION AND PERMANENT INJURY.

FIRST AID:

***** SECTION V CONTINUED *****

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INHALATION: IF AFFECTED BY INHALATION OF VAPOR OR SPRAY MIST, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING DIFFICULTY PERSISTS, OR OCCURS LATER, CONSULT A PHYSICIAN.

SKIN OR EYE: IN CASE OF CONTACT, IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES; CALL A PHYSICIAN. IN CASE OF SKIN CONTACT, WASH WITH SOAP AND WATER. IF IRRITATION OCCURS, CONTACT A PHYSICIAN.

INGESTION: GASTRO-INTESTINAL DISTRESS. IN THE UNLIKELY EVENT OF INGESTION, CALL A PHYSICIAN IMMEDIATELY AND HAVE NAMES OF INGREDIENTS AVAILABLE.

***** SECTION VI - REACTIVITY DATA *****

STABILITY
STABLE

INCOMPATIBILITY (MATERIALS TO AVOID): NONE REASONABLY FORESEEABLE.

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO₂, SMOKE, OXIDES OF HEAVY METALS REPORTED IN SECTION V.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

***** SECTION VII - SPILL OR LEAK PROCEDURES *****

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: VENTILATE AREA. REMOVE SOURCES OF IGNITION. PREVENT SKIN CONTACT AND BREATHING OF VAPOR. CONFINE AND REMOVE WITH INERT ABSORBENT.

WASTE DISPOSAL METHOD: DO NOT ALLOW MATERIAL TO CONTAMINATE GROUND WATER SYSTEMS. INCINERATE ABSORBED MATERIAL IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS. DO NOT INCINERATE IN CLOSED CONTAINERS.

***** SECTION VIII - SPECIAL PROTECTION INFORMATION *****

RESPIRATORY: DO NOT BREATHE VAPORS OR MISTS. WEAR A PROPERLY FITTED VAPOR/PARTICULATE RESPIRATOR APPROVED BY NIOSH/MSHA (TC-23C) FOR USE WITH PAINTS DURING APPLICATION AND UNTIL ALL VAPORS AND SPRAY MISTS ARE EXHAUSTED. FOLLOW THE RESPIRATOR MANUFACTURER'S DIRECTIONS FOR RESPIRATOR USE.

VENTILATION: PROVIDE SUFFICIENT VENTILATION IN VOLUME AND PATTERN TO KEEP CONTAMINANTS BELOW APPLICABLE OSHA REQUIREMENTS AND OTHER SUGGESTED EXPOSURE LIMITS.

PROTECTIVE CLOTHING: NEOPRENE GLOVES AND COVERALLS ARE RECOMMENDED.

EYE PROTECTION: GOGGLES ARE PREFERRED TO PREVENT EYE IRRI-

***** SECTION VIII CONTINUED *****

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TATION. IF SAFETY GLASSES ARE SUBSTITUTED, INCLUDE SPLASH
GUARD OR SIDE SHIELDS.
PROTECTIVE CREAMS: DO NOT USE FOR PROTECTION. MAY BE USED
FOR EASE OF CLEAN UP.

***** SECTION IX - SPECIAL PRECAUTIONS *****

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: OBSERVE
LABEL PRECAUTIONS. KEEP AWAY FROM HEAT, SPARKS AND FLAME.
CLOSE CONTAINER AFTER EACH USE. GROUND CONTAINERS WHEN
POURING. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING
OR SMOKING. DO NOT STORE ABOVE 120 F.
OTHER PRECAUTIONS: DO NOT SAND, FLAME CUT, BRAZE OR WELD DRY
COATING WITHOUT A NIOSH/MSHA APPROVED RESPIRATOR OR APPROPRI-
ATE VENTILATION.

***** SECTION X - NOTES *****

NOTICE FROM DUPONT

THE DATA IN THIS MATERIAL SAFETY DATA SHEET RELATE ONLY TO THE SPECIFIC
MATERIAL DESIGNATED HEREIN AND DO NOT RELATE TO USE IN COMBINATION
WITH ANY OTHER MATERIAL OR ANY PROCESS.

PRODUCT MANAGER